Langford Locks
Kidlington
Oxfordshire
OX5 1LH
Telephone: +44(0)1865 595230

Certificate of Analysis

Name: SARS-CoV-2 Purified Viral Lysate

Product Code: NAT41605-100 / NAT41605-500

Batch #:

Date of Manufacture:

Product Description: This virus was isolated from a patient with a respiratory illness who had returned from travel to the affected region of China and developed COVID-19 in January 2020 in Washington, USA.

Sequence Strain: SARS-Related Coronavirus 2 (SARS-CoV-2, Isolate: USA-WA1/2020)

NCBI GenBank Accession No.: MN985325

Purification: The virus is purified using sucrose density gradient ultracentrifugation, disrupted in the presence of 0.5% Triton X-100 non-ionic detergent/0.6 M KCl, and heat inactivated.

Inactivation: Viral inactivation is verified by the absence of viral growth in tissue culture-based infectivity assays. Endpoint dilution assays are used to evaluate the pre-inactivation TCID50 titer and the lysate samples. Three independent lysate samples are inoculated into VeroE6 cells (n=4) and incubated for 7 days at 37°C. The inoculated cell cultures are observed for signs of cytopathic effects (CPE). All lysate samples must demonstrate no CPE to verify inactivation of the product.

Health and Safety: This product is potentially biohazardous. It should be handled with appropriate safety precautions for biological materials. Local biosafety procedures should be maintained at all times.

Amount: 0.1mg / 0.5mg

Concentration: ≥ 0.5 mg/mL by BCA Protein Assay

Presentation: Frozen lysate

Usage Guidelines

Short Term Storage: -80ºC

Long Term Storage: -80ºC

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General: Repetitive freezing and thawing is not recommended (aliquot material if necessary). To avoid cross-contamination, use separate pipette tips for all reagents.

X _____

QC

X _____

QA

Products are for Research Use or for Further Manufacturing Use only. Not for Diagnostic or Therapeutic Use.

SARS-CoV-2 is a Biosafety Level 3 microorganism when infectious. When inactivated it must be used within a Biological Safety Level 2 facility or biosafety cabinet. Please consult your institution's regulations regarding the use of this product.

For a detailed discussion on biological safety see;

1. The Genetically Modified Organisms (Contained Use) Regulations 2014, The SACGM Compendium of Guidance, and Control of Substances Hazardous to Health (Sixth Edition), published by the UK Health and Safety Executive (HSE).
2. The 5th edition of Biosafety in Microbiological and Biomedical Laboratories (BMBL), published by the CDC at http://www.cdc.gov/biosafety/publications/bmbl5/index.htm.